

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1-4. (Canceled)

5. (Previously Presented) A bone-cutting apparatus comprising:

a guide removably attachable to a bone, the guide defining a box-cut opening;

a rotatable mill coupled to the guide, wherein the mill is pivotable within the opening along a cutting plane between a first position, in which the mill is laterally adjustable relative to the opening, and a second position, in which the mill is laterally constrained relative to the opening, the second position including a sequence of positions from the first position toward a last position, wherein the last position is determined by a wall of the guide; and

a rod rotatably supported by the guide and connected with the mill,
wherein the rod includes a center hole and two side holes for selectively receiving the mill.

6. (Original) The apparatus of claim 5, wherein the mill is coupled to one of the holes by a press-fit guide pin.

7. (Previously Presented) The apparatus of claim 5, further comprising a pin supported on the guide engaging a groove in the rod to prevent lateral sliding of the rod relative to the base.

8. (Previously Presented) The apparatus of claim 5, wherein the rod is prevented from sliding when the mill is in the second position.

9. (Original) The apparatus of claim 8, further comprising a pin supported on the guide, and wherein the rod includes a plurality of truncated grooves, such that the pin is selectively engaged in one of the grooves when the mill is pivoted from the first to the second position.

10. (Previously Presented) A bone-cutting apparatus comprising:

a guide having a base, a bone-attachment flange substantially parallel to the base and two guiding sides substantially perpendicular to the base, the guide defining a box-cut opening having a lateral axis substantially parallel to the flange and extending substantially perpendicularly between the two guiding sides;

a rod rotatably supported by the base substantially perpendicularly to the lateral axis, wherein a first portion of the rod includes a plurality of truncated grooves;

a pin attached to the base substantially perpendicularly to the base and selectively engaging one of the grooves; and

a rotatable mill coupled to the rod and pivotable about the lateral axis between a first position, in which the mill is substantially parallel to the base, and a last position, in which the mill is at an angle relative to the base, wherein the mill is slidably adjustable along the lateral axis within the opening in the first position, and wherein, when the mill is between the first and the last positions, the pin engages one of the grooves and the mill is substantially fixed relative to the lateral axis.

11. (Previously Presented) A bone-cutting apparatus comprising:

a guide having a base, a bone-attachment flange and two guiding sides, the guide defining a box-cut opening;

a rod rotatably supported by the base, wherein a first portion of the rod includes a plurality of truncated grooves, wherein the rod is rotatably received in a split bore within the base;

a pin attached to the base and selectively engaging one of the grooves; and

a rotatable mill coupled to the rod and movable between a first position, in which the mill is substantially parallel to the base, and a last position, in which the mill is at an angle relative to the base, wherein the mill is laterally adjustable within the opening in the first position, and

wherein, when the mill is between the first and the last positions, the pin engages one of the grooves and the mill is laterally constrained.

12. (Original) The apparatus of claim 11, wherein the pin traverses a first portion of the bore.

13. (Original) The apparatus of claim 12, wherein the rod has a chamfered portion preventing engagement of the pin with the grooves when the mill is in the first position.

14. (Original) The apparatus of claim 11, further comprising an indexing mechanism for selecting a lateral location of the mill in the first position.

15. (Original) The apparatus of claim 14, wherein the indexing mechanism includes a spring-loaded ball plunger and a plurality of detents on a second portion of the rod.

16. (Previously Presented) The apparatus of claim 11, wherein the mill includes a shaft having a driven end, a cutting portion, and a bore rotatably receiving a pivot pin having an end threadably engaging the rod.

17-38. (Cancelled)